

Appendix E-2 Cecil County Emission Reduction Measures List/ RACM Analysis

Strategy Category	Strategy Name	Brief Description	Above 0.1 tons per day VOC reduced	Above 0.1 tons per day NOx reduced	Below \$10,000 per ton of VOC reduced	Below \$10,000 per ton of NOx reduced	RACM Yes or No?	RACM Explanation:
Fuel	Biodiesel fuel	Expand use of biodiesel fuel for on-road vehicles.	✓				NO	Will not provide reductions before May 2008
Fuel	Low-NOx diesel fuel	Require regional use of low-NOx fuel additives for on-road diesel vehicles		✓	✓	✓	NO	Will not provide reductions before May 2008
Funding	Sell clean air license plates	Sell Clean Air License Plates to fund air quality programs (similar to "Save the Bay" tags). Use the revenue to pay for cost effective emission reduction technologies.				✓	NO	Will not provide reductions before May 2008

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I/M	"Cash for Clunkers" Gas Caps Program	Provide free replacement gas caps to light- and medium-duty vehicle owners.					NO	Will not advance attainment based on potential emission reductions
I/M	Enhanced enforcement of smoking vehicles	Increase smoking vehicle enforcement for trucks.					NO	Will not advance attainment based on potential emission reductions
I/M	Remote Sensing Program	Adopt a remote sensing program.					NO	Will not provide reductions before May 2008
Idling	Auxiliary Power Units (APU)	Increase Market Penetration of APUs to Reduce Truck Idling.				✓	NO	Will not provide reductions before May 2008
Idling	Electrified parking for tour buses	Provide electrified parking spaces for tour buses.			✓	✓	NO	Will not provide reductions before May 2008

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Mode Shift/VMT	Clean Commute Marketing through Opinion Leaders	Recruit public opinion leaders to educate and encourage the public to reduce single occupant vehicle commuting.					NO	Will not provide reductions before May 2008
Mode Shift/VMT	Vehicle share programs	Develop vehicle share programs.			✓	✓	NO	Will not provide reductions before May 2008
Mode Shift/VMT	Telecourses at local colleges and universities	Encourage local colleges and universities to offer telecourses to reduce vehicle trips.	✓	✓			NO	Will not advance attainment based on potential emission reductions
Mode Shift/VMT	Mass marketing campaign	Marketing effort involving business-to-business advertising campaign in print media and on world wide web.					NO	Will not advance attainment based on potential emission reductions

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New Vehicle	Private fleets buy gasoline hybrid electric vehicles	Require fleets operating in the Cecil County nonattainment area to be comprised of a percentage of Advanced Technology--Partial ZEVs (PZEVs).			✓	✓	NO	Will not provide reductions before May 2008
New Vehicle	Hybrid vehicle tax incentives	Establish incentives to purchase hybrid electric vehicles.			✓	✓	NO	Will not provide reductions before May 2008
New Vehicle	Rebate for Hybrid Vehicle Purchase	Issue rebates for purchase and registration of hybrid vehicles.			✓	✓	NO	Will not provide reductions before May 2008
Parking	New surface parking at transit centers	Add new parking spaces at transit center parking lots.					NO	Will not provide reductions before May 2008
Retrofit	Improve truck fleet efficiency	Encourage Adoption of Technologies that Increase Truck Fleet Efficiency.			✓	✓	NO	Will not provide reductions before May 2008

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Retrofit	Voluntary NOx Diesel Retrofits	Implement voluntary diesel retrofit programs targeted at reducing NOx emissions. Target a variety of fleets and vehicle types.		✓		✓	NO	Will not provide reductions before May 2008
Retrofit	Voluntary PM Diesel Retrofits	Implement voluntary diesel retrofit programs targeted at reducing PM emissions. Target a variety of fleets and vehicle types.					NO	Will not advance attainment based on potential emission reductions
Transit	Clean Fuel Shuttles--mostly CNG	Use alternative fuel shuttle buses at airports. Include private lot shuttles--on a voluntary basis.					NO	Will not advance attainment based on potential emission reductions

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Transit	Discounted pre-paid transit fare instruments	Institute/promote method for employers to provide transportation vouchers (i.e., for alternatives to SOV).					NO	Will not advance attainment based on potential emission reductions
Transit	Real-time bus schedule	Provide real-time bus schedule information.	✓	✓			NO	Will not advance attainment based on potential emission reductions
Transit	Emergency ride home	Provide free taxi rides home for transit riders on systems that cannot get them home at midday for emergency situations			✓	✓	NO	Will not advance attainment based on potential emission reductions
VMT Reduction	School course on transportation-related air quality	Create and distribute public school course material on air pollution from motor vehicles					NO	Will not advance attainment based on potential emission reductions

Source: E.H. Pechan & Associates, Inc., “Review of Emission Reductions Strategies”, December 8, 2006